Attorney Docket No 884 368US1

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

United States Patent Application COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: REGISTER ROTATION PREDICTION AND PRECOMPUTATION.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification. including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. §1.63(e).

H 1 hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

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Page 3 of 5

Attorney Docket No.: 884.368US1

Serial No. not assigned Filing Date: not assigned		
on informati that willful l 1001 of Titl	ion and behel are believed to be true; and furthe lalse statements and the like so made are punished 18 of the United States Code and that such will or any patent issued thereon.	my own knowledge are true and that all statements made that these statements were made with the knowledge ble by fine or imprisonment, or both, under Section Iful false statements may jeopardize the validity of the
Citizenship:	United States of America	Residence: Fremont, CA
Post Office Address [,]	39877 Sundale Drive #105 Fremont, CA 94538	Date. Mor 20, 200)
Signature:	Hong Wang	Date/ 1/200 /
Full Name of joint inver Citizenship: Post Office Address:	United States of America 204 N Harvey Street #206 Urbana, IL 61801	Residence: Urbana, IL
Signature:	Christopher J. Hughes	Date:
X Additional inventors	are being named on separately numbered sheets.	attached hereto.
Full Name of joint inver Citizenship: Post Office Address.	Germany 1422 Bedford Avenue	Residence: Sunnyvale, CA
Signature:	Sunnyvale, CA 94087 Ralph Kling	Date: 3/20/0)
Full Name of joint myer	ntor number 4: Yong-Fong Lee	
Citizenship: Post Office Address.	United States of America 7265 Sleepy Creek Dr. San Jose, CA 95120	Residence: San Jose, CA

Full Name of joint inventor number 5: Daniel M. Lavery Citizenship: United States of America Post Office Address: 3131 Homestead Rd. #23A

Signature:

Signature:

Residence: Santa Clara, CA

Date:

Date:

Santa Claray CA 95051

Yong-Fong Lee

Daniel M. Lavery

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Attorney Docker No.: 884.368US1 Serial No. not assigned Filing Date: not assigne I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon Full Name of joint inventor number 6: John Shen United States of America Citizenship: Residence: San Jose, CA Post Office Address. 2303 Quail Bluff Place San Jose, CA 95121 MAR. 19 ,200) Signature: Date: Full Name of joint inventor number 7: Jamison Collins Citizenship: United States of America Residence: Los Gatos, CA Post Office Address: 134 Old Adobe Way Los Gatos, CA 95032 Signature: Date: : [] Jamison Collins i i = h High High

Attorney Docket No.: 884,368US1 Scrial No. not ussigned Filing Date: not assigned

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Page 5 of 5

- § 1.56 Duty to disclose information material to patentability.
- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carclully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
 - (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facic case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the prependerance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

United States Patent Application COMBINED DECLARATION AND POWER OF ATTORNEY

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I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which

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No such claim for priority is being made at this time.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Aldous, Alan K. Anglin, J. Michael Arora, Suneel Beekman, Marvin L. Bianchi, Timothy E. Billion, Richard E. Black, David W. Brake, R. Edward Brennan, Leoniede M. Brennan, Thomas F. Brooks, Edward J., III Burge, Ben Clark, Barbara J. Clise, Timothy B. Dahl, John M. Draeger, Jeffrey S. Drake, Eduardo E. Embretson, Janet E. Faatz, Cynthia Thomas Fordenbacher, Paul J. Forrest, Bradley A. Gamon, Owen J. Gortych, Joseph E. Greaves, John N. Haack, John L. Harris, Robert J. Hill, Stauley K. Jurkovich, Patti J.	Reg. No. 31,905 Reg. No. 24,916 Reg. No. 24,916 Reg. No. 38,377 Reg. No. 39,610 Reg. No. 32,836 Reg. No. 32,836 Reg. No. 37,784 Reg. No. 35,832 Reg. No. 35,075 Reg. No. 35,075 Reg. No. 40,925 Reg. No. 40,925 Reg. No. 44,639 Reg. No. 44,639 Reg. No. 44,639 Reg. No. 44,639 Reg. No. 41,000 Reg. No. 41,000 Reg. No. 40,594 Reg. No. 39,665 Reg. No. 39,973 Reg. No. 39,665 Reg. No. 30,837 Reg. No. 36,143 Reg. No. 41,791 Reg. No. 40,362 Reg. No. 40,362 Reg. No. 40,362 Reg. No. 40,362 Reg. No. 37,346 Reg. No. 37,548 Reg. No. 37,548 Reg. No. 44,813	Kacvinsky, John Kalis, Janal M. Kalson, Seth Z. Kaplan, David J. Kaufmann, John D. Klima-Silberg, Catherine I. Kluth, Daniel J. Lacy, Rodney L. Lam, Peter Lemaire, Charles A. LeMoine, Dana B. Lundberg, Steven W. Maeyaert, Paul L. Maki, Peter C. Malen, Peter L. Mates, Robert E. McCrackin, Ann M. Mirho, Charles A. Moore, Charles L., Jr. Nagy, Paul Nama, Kash Nelson, Albin J. Nielsen, Walter W. Novakoski, Leo V. Padys, Danny J. Park, Ellen Parker, J. Kevin Perdok, Monique M.	Reg. No. 40,040 Reg. No. 37,650 Reg. No. 40,670 Reg. No. 41,105 Reg. No. 24,017 Reg. No. 32,146 Reg. No. 32,146 Reg. No. 41,136 Reg. No. 44,855 Reg. No. 36,198 Reg. No. 30,568 Reg. No. 40,062 Reg. No. 40,062 Reg. No. 40,076 Reg. No. 42,832 Reg. No. 42,832 Reg. No. 42,832 Reg. No. 42,858 Reg. No. 42,858 Reg. No. 41,199 Reg. No. 33,742 Reg. No. 37,896 Reg. No. 25,539 Reg. No. 25,539 Reg. No. 37,198 Reg. No. 37,198 Reg. No. 34,055 Reg. No. 33,024 Reg. No. 33,024 Reg. No. 33,024 Reg. No. 32,989	Peterson, David C. Prout, William F. Reynolds, Thomas C. Schumm, Sherry W. Schwegman, Micheal L. Scott, John C. Seddon, Kenneth M. Seeley, Mark Skabrat, Steven P. Skaist, Howard A. Smith, Michael G. Speier, Gary J. Steffey, Charles E. Stewart, Steven C. Stordal, Leif T. Su, Gene I. Terry, Kathleen R. Tong, Viet V. Viksnins, Ann S. Vogel, Peter J. Wells, Calvin E. Werner, Raymond J. Winkle, Robert G. Woossner, Warren D. Wong, Sharon Yates, Steven D. Young, Charles K.	Reg. No. P-47,857 Reg. No. 33,995 Reg. No. 32,488 Reg. No. 39,422 Reg. No. 25,816 Reg. No. 38,613 Reg. No. 43,105 Reg. No. 36,279 Reg. No. 36,279 Reg. No. 36,008 Reg. No. 45,368 Reg. No. 45,458 Reg. No. 45,458 Reg. No. 25,179 Reg. No. 33,555 Reg. No. 46,251 Reg. No. 46,251 Reg. No. 45,140 Reg. No. 31,884 Reg. No. 45,416 Reg. No. 31,884 Reg. No. 45,416 Reg. No. 37,748 Reg. No. 43,256 Reg. No. 37,748 Reg. No. 37,747 Reg. No. 30,440 Reg. No. 37,760 Reg. No. 37,760 Reg. No. 37,760 Reg. No. 39,435
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I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/ firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below: P.O. Box 2938, Minneapolis, MN 55402 | m =

Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and

made are pullishable by Im	e; and further that these statements were ma	issued the united States Code and that such willful false issued thereon.	
Full Name of joint inventor Citizenship: Post Office Address:	number 1: Hong Wang United States of America 39877 Sundale Drive #105 Fremont, CA 94538	Residence: Fremont, CA	
Signature:	Hong Wang	Date:	_
Full Name of joint inventor Citizenship: Post Office Address:	number 2: Christopher J. Hughes United States of America 204 N. Harvey Street #206	Residence: Urbana, IL	

March 16, 2001

X Additional inventors are being named on separately numbered sheets, attached hereto.

Signature:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inven	tor number 3: Ralph Kling		
Citizenship:	Germany	Residence: Sunnyvale, CA	
Post Office Address:	1422 Bedford Avenue	• ,	
	Sunnyvale, CA 94087		
		_	
Signature:	D 11 771'	Date:	
	Ralph Kling		
Evil Name of joint inven	tor number 4. Vona Eona Lee		
Full Name of joint inven Citizenship:	tor number 4: Yong-Fong Lee United States of America	Residence: San Jose, CA	
Post Office Address:	7265 Sleepy Creek Dr.	Residence. San Jose, CA	
1 0st Office Address.	San Jose, CA 95120		
	San Jose, CA 95120		
Signature:		Date:	
	Yong-Fong Lee	Date.	
900 Ta	Tong-Tong Loc		
10 12 12 12 12 12 12 12 12 12 12 12 12 12			
Full Name of joint inven	tor number 5: Daniel M. Lavery		
Citizenship:	United States of America	Residence: Santa Clara, CA	
Post Office Address:	3131 Homestead Rd. #23A	Rosidoneo. Sunta Ciara, Cri	
11	Santa Clara, CA 95051		
9 1			
Signature:		Date:	
A Steer of S	Daniel M. Lavery		
And State St	-		
Full Name of joint inven	tor number 6: John Shen		
Citizenship:	United States of America	Residence: San Jose, CA	
Post Office Address:	2303 Quail Bluff Place		
	San Jose, CA 95121		
		_	
Signature:	T 1 C1	Date:	
	John Shen		
Full Name of joint inven	tor number 7. Ismison Collins		
Citizenship:	tor number 7: <u>Jamison Collins</u> United States of America	Pasidanas I as Catas CA	
Post Office Address:	134 Old Adobe Way	Residence: Los Gatos, CA	
i on Office Address.	Los Gatos, CA 95032		
	200 Gaios, CA 73032		
Signature:		Date:	
	Jamison Collins		

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§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
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Schwegman ■ Lundberg ■ Woessner ■ Kluth

United States Patent Application

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Anglin, J. Michael	Reg. No. 24,916	Kalis, Janal M.	Reg. No. 37,650	Prout, William F.	Reg. No. 33,995
Arora, Suneel	Reg. No. 42,267	Kalson, Seth Z.	Reg. No. 40,670	Reynolds, Thomas C.	Reg. No. 32,488
Beekman, Marvin L.	Reg. No. 38,377	Kaplan, David J.	Reg. No. 41,105	Schumm, Sherry W.	Reg. No. 39,422
Bianchi, Timothy E.	Reg. No. 39,610	Kaufmann, John D.	Reg. No. 24,017	, ,	
Billion, Richard E.	Reg. No. 32,836			Schwegman, Micheal L.	Reg. No. 25,816
•		Klima-Silberg, Catherine I.	Reg. No. 40,052	Scott, John C.	Reg. No. 38,613
Black, David W.	Reg. No. 42,331	Kluth, Daniel J.	Reg. No. 32,146	Seddon, Kenneth M.	Reg. No. 43,105
Brake, R. Edward	Reg. No. 37,784	Lacy, Rodney L.	Reg. No. 41,136	Seeley, Mark	Reg. No. 32,299
Brennan, Leoniede M.	Reg. No. 35,832	Lam, Peter	Reg. No. 44,855	Skabrat, Steven P.	Reg. No. 36,279
Brennan, Thomas F.	Reg. No. 35,075	Lemaire, Charles A.	Reg. No. 36,198	Skaist, Howard A.	Reg. No. 36,008
Brooks, Edward J., III	Reg. No. 40,925	LeMoine, Dana B.	Reg. No. 40,062	Smith, Michael G.	Reg. No. 45,368
Burge, Ben	Reg. No. 42,372	Lundberg, Steven W.	Reg. No. 30,568	Speier, Gary J.	Reg. No. 45,458
Clark, Barbara J.	Reg. No. 38,107	Maeyaert, Paul L.	Reg. No. 40,076	Steffey, Charles E.	Reg. No. 25,179
Clise, Timothy B.	Reg. No. 40,957	Maki, Peter C.	Reg. No. 42,832	Stewart, Steven C.	Reg. No. 33,555
Dahl, John M.	Reg. No. 44,639	Malen, Peter L.	Reg. No. 44,894	Stordal, Leif T.	Reg. No. 46,251
Draeger, Jeffrey S.	Reg. No. 41,000	Mates, Robert E.	Reg. No. 35,271	Su, Gene I.	Reg. No. 45,140
Drake, Eduardo E.	Reg. No. 40,594	McCrackin, Ann M.	Reg. No. 42,858	Terry, Kathleen R.	Reg. No. 31,884
Embretson, Janet E.	Reg. No. 39,665	Mirho, Charles A.	Reg. No. 41,199	Tong, Viet V.	Reg. No. 45,416
Faatz, €ynthia Thomas	Reg. No. 39,973	Moore, Charles L., Jr.	Reg. No. 33,742	Viksnins, Ann S.	Reg. No. 37,748
Fordenbacher, Paul J.	Reg. No. 42,546	Nagy, Paul	Reg. No. 37,896	Vogel, Peter J.	Reg. No. 41,363
Forrest, Bradley A.	Reg. No. 30,837	Nama, Kash	Reg. No. 44,255	Wells, Calvin E.	Reg. No. 43,256
Gamon, Owen J.	Reg. No. 36,143	Nelson, Albin J.	Reg. No. 28,650	Werner, Raymond J.	Reg. No. 34,752
Gortych, Joseph E.	Reg. No. 41,791	Nielsen, Walter W.	Reg. No. 25,539	Winkle, Robert G.	Reg. No. 37,474
Greaves, John N.	Reg. No. 40,362	Novakoski, Leo V.	Reg. No. 37,198	Woessner, Warren D.	Reg. No. 30,440
Haack, John L.	Reg. No. 36,154	Padys, Danny J.	Reg. No. 35,635	Wong, Sharon	Reg. No. 37,760
Harris, Robert J.	Reg. No. 37,346	Park, Ellen	Reg. No. 34,055	Yates, Steven D.	Reg. No. 42,242
Hill, Stanley K.	Reg. No. 37,548	Parker, J. Kevin	Reg. No. 33,024	Young, Charles K.	Reg. No. 39,435
Jurkovich, Patti J.	Reg. No. 44,813	Perdok, Monique M.	Reg. No. 42,989	roung, Charles IC.	106.110.37,433
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I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402 Telephone No. (612)373-6900

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Full Name of joint inventor num Citizenship: Post Office Address:	ber 1: Hong Wang United States of America 39877 Sundale Drive #105 Fremont, CA 94538	Residence: Fremont, CA
Signature: Hong	Wang	Date:
Full Name of joint inventor num Citizenship: Post Office Address:	ber 2: Christopher J. Hughes United States of America 204 N. Harvey Street #206 Urbana, IL 61801	Residence: Urbana, IL
Signature: Chris	topher J. Hughes	Date:

Filing Date: not assigned

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Full Name of joint inver	ntor number 3: Ralph Kling		
Citizenship: Post Office Address:	Germany 1422 Bedford Avenue Sunnyvale, CA 94087	Residence: Sunnyvale, CA	
Signature:		Date:	
	Ralph Kling		
Full Name of joint inve			
Citizenship:	United States of America	Residence: San Jose, CA	
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§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by \$\frac{1}{2}\$ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
 - the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prime facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the prepointerance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.